

## ABSTRACT

5           A sound reproduction apparatus that performs better masking  
compensation, by precisely extracting the ambient noise from a composite  
sound which contains the ambient noise and the signal generated by a  
speaker, removing therefrom the signal generated from the speaker. The  
apparatus includes a first microphone (16) provided outside a dust cap (15) of  
10 a speaker unit (14), and a second microphone (17) provided inside a dust cap  
(15). The output signals from the microphones are filtered respectively and  
then added together, and the added signal controls the strength of input  
signal.